



New Diagnostics Working Group

New Diagnostics Working Group E-News
February 2014

News

[Global Fund - New funding model and application materials available online](#)

[Call for nominations – Global Laboratory Initiative Core Group](#)

Closing date for applications: 1st March 2014

[International Conference on Tuberculosis 'Scientific Research Progress and Hope in the Fight against Tuberculosis'](#)

24 March 2014, University of Gent, Belgium

[6th GLI Partners' Meeting](#)

30 April – 2 May 2014, Executive Board Meeting Room, WHO, Geneva, Switzerland

Registration at harropl@who.int

[Save the date - Workshop on Pediatric Tuberculosis: Addressing research gaps in Diagnostic TB Biomarkers in Children](#)

5-6 May 2014, NIAID, Bethesda, MD, United States

[Tackling drug-resistant TB in London](#)

[TB: how many young children are wrongly diagnosed as disease-free?](#)

New scientific articles

[Xpert® MTB/RIF assay for pulmonary tuberculosis and rifampicin resistance in adults](#) (Updated)

Steingart KR, Schiller I, Horne DJ, Pai M, Boehme CC, Dendukuri N. Cochrane Database Syst Rev. 2014 Jan

[Do we need to detect isoniazid resistance in addition to rifampicin resistance in diagnostic tests for tuberculosis?](#)

Denkinger CM, Pai M, Dowdy DW. PLoS One. 2014 Jan 3;9(1):e84197.

[GeneXpert MTB/RIF Version G4 for Identification of Rifampin-Resistant Tuberculosis in a Programmatic Setting.](#)

Osman M, Simpson JA, Caldwell J, Bosman M, Nicol MP. J Clin Microbiol. Feb 2014

[Point-of-Care System for Detection of Mycobacterium tuberculosis and Rifampin Resistance in Sputum Samples.](#)

Castan P, de Pablo A, Fernández-Romero N, Rubio JM, Cobb BD, Mingorance J, Toro C. J Clin Microbiol. 2014 Feb

[Analysis of miRNA expression profiling in human macrophages responding to Mycobacterium infection: induction of the immune regulator miR-146a.](#)

Liu Z, Zhou G, Deng X, Yu Q, Hu Y, Sun H, Wang Z, Chen H, Jia C, Wang D. J Infect. 2014 Jan

[Gold nanoprobe for multi loci assessment of multi-drug resistant tuberculosis.](#)

Pedrosa P, Veigas B, Machado D, Couto I, Viveiros M, Baptista PV. Tuberculosis (Edinb). 2014 Jan

[Phylogenetic polymorphisms in antibiotic resistance genes of the Mycobacterium tuberculosis complex.](#)

Feuerriegel S, Köser CU, Niemann S. J Antimicrob Chemother. 2014 Jan

[A rapid fluorescence polarization-based method for genotypic detection of drug resistance in Mycobacterium tuberculosis.](#)

Sun Y, Li S, Zhou L, Zhou L, Zhong Q, Fang S, Chen T, Bi L, Mat WK, Zhao C, Xue H. Appl Microbiol Biotechnol. 2014 Jan

[Point-of-care urine test for assessing adherence to isoniazid treatment for tuberculosis.](#)

Soobraty MR, Whitfield R, Subramaniam K, Grove G, Carver A, O'Donovan GV, Wu HH, Lee OY, Swaminathan R, Cope GF, Milburn HJ. Eur Respir J. 2014 Jan

[Evaluation of two line probe assays for rapid detection of Mycobacterium tuberculosis, tuberculosis drug resistance, and non-tuberculosis mycobacteria in HIV-infected TB suspects.](#)

Luetkemeyer AF, Kendall MA, Wu X, Lourenço MC, Jentsch U, Swindells S, Qasba SS, Sanchez J, Havlir DV, Grinzstejn B, Sanne IM, Firnhaber C. J Clin Microbiol. 2014 Jan

[Application of lipoarabinomannan antigen in tuberculosis diagnostics: current evidence.](#)

Sarkar P, Biswas D, Sindhwani G, Rawat J, Kotwal A, Kakati B. Postgrad Med J. 2014 Jan 15

[Performance of the MTBDRsl assay in Georgia.](#)

Tukvadze N, Bablishvili N, Apsindzelashvili R, Blumberg HM, Kempker RR. Int J Tuberc Lung Dis. 2014 Feb

[Second-line drug susceptibility breakpoints for Mycobacterium tuberculosis using the MODS assay.](#)

Trollip AP, Moore D, Coronel J, Caviedes L, Klages S, Victor T, Romancenco E, Crudu V, Ajbani K, Vineet VP, Rodrigues C, Jackson RL, Eisenach K, Garfein RS, Rodwell TC, Desmond E, Groessl EJ, Ganiats TG, Catanzaro A. Int J Tuberc Lung Dis. 2014 Feb

[Evaluation of Xpert MTB/RIF for the diagnosis of tuberculous meningitis.](#)

Nhu NT, Heemskerck D, Thu do DA, Chau TT, Mai NT, Nghia HD, Loc PP, Ha DT, Merson L, Thinh TT, Day J, Chau Nv, Wolbers M, Farrar J, Caws M. J Clin Microbiol. 2014 Jan

[Nitrate reductase assay for rapid detection of isoniazid, rifampicin, ethambutol and streptomycin resistance in Mycobacterium tuberculosis: a systematic review and meta-analysis](#)

Coban AY, Deveci A, Sunter AT, Martin A. J Clin Microbiol. 2014 Jan

[Challenges in the development of an immunochromatographic interferon-gamma test for diagnosis of pleural tuberculosis.](#)

Denkinger CM, Kalantri Y, Schumacher SG, Michael JS, Shankar D, Saxena A, Sriram N, Balamugesh T, Luo R, Pollock NR, Pai M, Christopher DJ. PLoS One. 2013 Dec 23;8(12):e85447.

[Robust, reliable and resilient: designing molecular tuberculosis tests for microscopy centers in developing countries](#)

Denkinger CM, Kik SV, Pai M. Expert Rev Mol Diagn. 2013 Nov;13(8):763-7.

[Tuberculosis: progress and challenges in product development and delivery](#)

Pai M, Dowdy D.. Lancet Resp Med 2014.

[Xpert MTB/RIF testing in a low TB incidence, high-resource setting: limitations in accuracy and clinical impact.](#)

Sohn H, Aero A, Behr M, Schwartzman K, Alvarez G, Menzies D, Pai M, Denkinger CM. Clin Infect Dis 2014; doi: 10.1093/cid/ciu022.

[Delays in diagnosis and treatment of pulmonary tuberculosis in India: a systematic review.](#)

Sreeramareddy CTS, Qin ZZ, Satyanarayana S, Subbaraman R, Pai M. Int J Tuberc Lung Dis 2014;18(2):1-12

Publications

[WHO Executive Board recommends post-2015 global TB strategy to Assembly](#)

- [Resolution developed by the Executive Board](#)
- [WHO report on the proposed post-2015 TB Strategy and targets \(as presented to the Executive Board\)](#)
- [Short summary of the proposed post-2015 TB Strategy and targets](#)

[Review of the National Tuberculosis Programme in the Republic of Moldova](#)

WHO Europe

[TB Care I Annual Report Year 3](#)

TB Care I

[Evolution and transmission of drug-resistant tuberculosis in a Russian population.](#)

Casali N, Nikolayevskyy V, Balabanova Y, Harris SR, Ignatyeva O, Kontsevaya I, Corander J, Bryant J, Parkhill J, Nejentsev S, Horstmann RD, Brown T, Drobniowski F. Nat Genet. 2014 Jan

[Tuberculosis elimination: theory and practice in Europe](#)

D'Ambrosio L, Dara M, Tadolini M, Centis R, Sotgiu G, van der Werf MJ, Gaga M, Cirillo D, Spanevello A, Raviglione M, Blasi F, Migliori GB; on behalf of the European national programme representatives. Eur Respir J. 2014 Jan

[ERS/WHO Tuberculosis Consilium: reporting of the initial 10 cases](#)

D'Ambrosio L, Tadolini M, Dupasquier S, Tiberi S, Centis R, Dara M, Blasi F, Migliori GB. Eur Respir J. 2014 Jan

[Circulating Mycobacterium bovis Peptides and Host Response Proteins as Biomarkers for Unambiguous Detection of Subclinical Infection.](#)

Lamont EA, Janagama HK, Ribeiro-Lima J, Vulchanova L, Seth M, Yang M, Kurmi K, Waters WR, Thacker T, Sreevatsan S. J Clin Microbiol. 2014 Feb

[Mozambique faces challenges in the fight against tuberculosis.](#)

García-Basteiro AL, López-Varela E, Manhiça I, Macete E, Alonso PL. Lancet. 2014 Jan

[Tuberculosis: progress and challenges in product development and delivery.](#)

Pai M, Dowdy D. Lancet Respir Med. 2014 Jan

[Long-term outcomes of patients with extensively drug-resistant tuberculosis in South Africa: a cohort study](#)

Pietersen E, Ignatius E, Streicher EM, Mastrapa B, Padanilam X, Pooran A, Badri M, Lesosky M, van Helden P, Sirgel FA, Warren R, Dheda K. Lancet. 2014 Jan 16.

[Mycobacteria manipulate macrophage recruitment through coordinated use of membrane lipids](#)

Cambier CJ, Takaki KK, Larson RP, Hernandez RE, Tobin DM, UrdaHL KB, Cosma CL, Ramakrishnan L. Nature. 2014 Jan

[Tuberculosis drug discovery in the post-post-genomic era](#)

Lechartier B, Rybniker J, Zumla A, Cole ST. EMBO Mol Med. 2014 Jan

[Fluoroquinolone resistance in Mycobacterium tuberculosis. What have we learnt?](#)

Yew WW, Lange C. Int J Tuberc Lung Dis. 2014 Jan

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